

Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 663777	FOR FURTHER ACTION						
International application No.	International filing date	e (day/month/year)	Priority date (day/month/year)				
РСТ/Љ2003/004681	14 April 2003	(14.04.2003)	15 April 2002 (15.04.2002)				
International Patent Classification (IPC) or national classification and IPC A01H 1/00, C12N 15/09							
Applicant PHYTOCULTURE CONTROL CO., LTD.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	4 sheets, i	including this cover	sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.							
3. This report contains indications rela	ting to the following iten	ns:					
Basis of the report							
II Priority							
	When weak birther was a Control of the control of t						
IV Lack of unity of inve	ention						
V Reasoned statement citations and explana	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents of	cited						
VII Certain defects in th	e international applicatio	n	l				
VIII Certain observations on the international application							
·							
Date of submission of the demand	`	Date of completion of this report					
05 November 2003 (05.11.2003)		13 February 2004 (13.02.2004)					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)

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International application No.

PCT/JP2003/004681

I. Basis of the report
1. With regard to the elements of the international application:*
the international application as originally filed
the description:
nages
pages, as originally filed pages, filed with the demand
pages, filed with the demand pages, filed with the letter of
the claims:
, as originally filed
, as amended (together with any statement under Article 19
pages, filed with the demand
,
the drawings:
pages, as originally filed
, filed with the demand
, fried with the letter of
the sequence listing part of the description:
pages, as originally filed
filed with the demand
pages, filed with the letter of
 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/fig
This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).
* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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/.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Statement					
			MEC			

Statement			
Novelty (N)	Claims	1-15	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-15	NÓ
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations

- Document 1: WO 00/63400 A (The Samuel Roberts Noble Foundation), 26 October 2000
- Document 2: Tatsuo Akai et al., "Takou-shitsu ceramic board ni yoru shokubutsu saibaihou," SHITA Rep., no. 14, pages 34-47 (1998)

(1) Claims 1 to 13

The invention described in claims 1 to 13 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 discloses a feature wherein a plant cultivated in a pot containing soil is transformed using an in planta method of immersing the plant in a carrier solution holding a gene for the transformation, and a feature wherein if soil seems likely to fall out of the pot when it is being immersed, the pot is wrapped in fabric or the like in order to prevent the soil from falling out. Document 2 discloses a method for cultivating a plant wherein water and nutrients are provided to the surface of a microporous material in which seeds are germinated and grown.

The invention disclosed in document 1 addresses the problem of soil falling out of a pot, and applying the non-soil cultivation method disclosed in document 2 as a

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means of solving said problem instead of holding loose soil in place with fabric or the like is not recognized as presenting any particular difficulty. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.

(2) Claims 14 and 15

The invention described in claims 14 and 15 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

As discussed in item (1), a person skilled in the art could easily conceive of applying the non-soil cultivation method disclosed in document 2 to the in planta method disclosed in document 1, and thus, applying said non-soil cultivation method during a selection stage for plant transformation also falls within the range of features of which a person skilled in the art could easily conceive. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.